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Quality Engineering Test Report

SERIES: DKE10C 10W DC-DC DUAL OUTPUT CONVERTER

SAMPLE:

A:	DKE10C-05	V1: +5V / 1A
		V2: -5V / 1A
B:	DKE10C-12	V1:+12V / 0.625A
		V2:-12V / 0.625A
C:	DKE10C-15	V1:+15V / 0.5A
		V2:-15V / 0.5A

NO	TEST ITEM	TEST CONDITION / SPECIFICATION	RESULT	VERDICT
1	DC INPUT VOLTAGE RANGE	I/P:TESTING SPEC: 36~72VDC O/P:FULL LOAD	A:29~72VDC	P
2	LINE REGULATION	I/P:36~72VDC SPEC: $\pm 0.3\%$ O/P:FULL LOAD	A: V1: -0% ~ +0.2% V2: -0.1% ~ +0% B: V1: -0% ~ +0% V2: -0.1% ~ +0% C: V1: -0% ~ +0.2% V2: -0.2% ~ +0.3%	P
3	LOAD REGULATION	I/P:48VDC SPEC: $\pm 2\%$ O/P:MIN. TO FULL LOAD	A: V1: -0% ~ +0% V2: -0.4% ~ +0.2% B: V1: -0% ~ +0% V2: -0.1% ~ +0.1% C: V1: -0.1% ~ +0.1% V2: -0.1% ~ +0%	P
4	OUTPUT VOLTAGE TOLERANCE	I/P:36~72VDC SPEC: NONE O/P:MIN. TO FULL LOAD	A: V1: -2.4% ~ +2.8% V2: -2.8% ~ +2.8% B: V1: -1.4% ~ +1.3% V2: -1.4% ~ +1.3% C: V1: -1.3% ~ +1.6% V2: -1.6% ~ +1.4%	P
5	RIPPLE&NOISE	I/P:48VDC SPEC: A:50mV O/P:FULL LOAD B:60mV C:60mV	A: V1: 25mV V2: 23mV B: V1: 15mV V2: 13mV C: V1: 13mV V2: 10mV	P
6	DC INPUT CURRENT	I/P:48VDC SPEC: NONE O/P:FULL LOAD	A:0.25A	P
7	O/P VOLTAGE ACCURACY	I/P:48VDC SPEC: $\pm 2\%$ O/P:MIN. LOAD	A: V1: +5.09V V2: -5.09V B: V1: +12.09V V2: -12.08V C: V1: +15.09V V2: -15.12V	P
8	SET UP TIME	I/P:48VDC SPEC: NONE O/P:FULL LOAD	A:120.0mS	P
9	EFFICIENCY	I/P:48VDC SPEC: 76% O/P:FULL LOAD	A: 84.7% B: 85.1% C: 86.5%	P
10	OVER LOAD PROTECTION	I/P:48VDC SPEC: NONE O/P:TESTING	A: 160% B: 168% C: 164%	P
11	INSULATION RESISTANCE	SPEC: I/P-O/P: 500VDC/100M Ohms MIN.	A: I/P-O/P >100M Ohms	P

NEXT

NO	TEST ITEM	TEST CONDITION / SPECIFICATION	RESULT	VERDICT								
12	DIELECTRIC / WITHSTAND VOLTAGE	SPEC: I/P–O/P: 500VDC/ 1 min (10mA CUT-OFF)	A: I/P–O/P:<0.05mA	P								
13	BURN-IN TEST	I/P:48VDC TA:23°C O/P:FULL LOAD BURN-IN DURATION : 4 hrs	A: NO BREAK B: NO BREAK C: NO BREAK	P								
14	TEMPERATURE RISE TEST T rise OF PARTS	A: I/P :48VDC O/P :FULL LOAD AFTER 4 hrs BURN-IN TA:23°C <table><tr><td>POSITION</td><td>SAMPLE</td><td>TEMP</td><td>T rise</td></tr><tr><td>CASE</td><td>DKE10C-05</td><td>45.5°C</td><td>22.3°C</td></tr></table>		POSITION	SAMPLE	TEMP	T rise	CASE	DKE10C-05	45.5°C	22.3°C	P
POSITION	SAMPLE	TEMP	T rise									
CASE	DKE10C-05	45.5°C	22.3°C									
15	CONSTRUCTION INSPECTION (FOR QC INSPECTION REFERENCE ONLY)	1. PACKING : 以塑膠泡墊保護PIN腳,再以紙盒包裝 2. MARKING : MODEL LABELx1 3. MECHANICAL : MODULAR TYPE, PIN :1.0Øx7mm										
DATE		SAMPLE	TEST RESULT	TEST	APPROVAL							
1999.1.27		DKE10C-05 DKE10C-12 DKE10C-15	PASS	T.K.CHENG	MAX LIN							

[PREVIOUS](#)